**ZipFire™**

High-efficiency Perforating System

Requirements of today’s high-paced, multiwell-pad zipper-frac operations are challenging for conventional wireline perforating gun systems. The GR Energy Services ZipFire™ high-efficiency perforating system, a true plug-and-play gun design, is the answer to current completion demands for higher stage-per-day performance with an uncompromising level of built-in safety features.

With oil and gas operators completing as many as 20 stages per day and using up to 40 perforating guns per wireline run, wellsite demands on wireline field operations to efficiently assemble and deploy long perforating strings are challenging.

The ZipFire perforating system is designed to reduce gun lengths, minimize handling and improve the safety and efficiency of wellsite operations. The flexible system is compatible with industry-standard shaped charges and can be customized to any shot phasing, orientation and density requirements. The ZipFire system is preassembled in a controlled facility, then delivered to the wellsite prewired and ready to deploy.

**ZipFire Benefits**
- Highly reliable, versatile perforating system
- Onsite wiring and crimping eliminated to significantly improve wellsite safety
- Preassembled to optimize transition time between stages for operating efficiency
- Real-time shot indication
- RF safe

**ZipFire Features**
- Customized shot phasing, density and charge types
- Multiple shot orientations — 0, 60, 90, 120, 180 degrees
- Preassembled to strict quality control standards
- Portless, reusable perforating subs
- Compatible with industry-standard shaped charges

**ZipFire Applications**
- Multistage, multiwell completions
- Horizontal and vertical wells in unconventional plays
- Limited-entry designs
The electronics are engineered to provide protection from electrostatic discharge, stray voltage and RF energy. In addition, the ZipFire detonator is protected from accidental discharge until the device is armed for initiation, making it one of the safest perforating devices in the industry.

Operations crews appreciate the reduced well transition times and the system’s improved reliability, while completion engineers value the flexibility the system provides in designing the optimum completion program to maximize well performance.

### Perforating for optimum results

GR recommends using its StrykeZone XACT* charges, which deliver consistent, large perforation entrance hole (EH) diameters. The large EH diameters prevent proppant bridging, and the consistent size improves fracture placement by providing uniform distribution of treating fluids and increased cluster stimulation.

Together, the ZipFire system and StrykeZone XACT charges help deliver record-setting performance that lowers completion time, reduces risk, decreases operating cost and maximizes total available pumping time—reaching for the goal of higher production and a better bottom line.

Contact GR today to learn more about the ZipFire system, which delivers the highest level of safety, efficiency and reliability in today’s rigorous perforating environment.

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**ZipFire Specifications**

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<th>Diameters</th>
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<td>3.125 in.</td>
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<td>3.375 in.</td>
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<td>4 in.</td>
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<thead>
<tr>
<th>Shot phasing</th>
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| Shot density | Customizable |

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*Mark of GR Energy Services
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